Chapter 10

Crash Studies



Definitions

Study: locating crashes at a particular location based on predetermined criteria

Study (initial): crashes identified by the system for the given criteria but not yet verified

Study (final): crashes identified by the system for the given criteria and verified through the fiche report and crash review

Y-Line: the distance along an intersecting route

Analysis: identification of trends, frequencies, rates, and other crash information used to develop countermeasures and assist in the mitigation of crash-related issues

Y-Line

A Y-line is a specified distance along an intersecting route from the mainline route. Mileposted crashes that occur within a given Y-Line distance will be included in a TEAAS study.

Y-Line Example:

For a crash study on US 15 with a 150 foot Y-Line, crashes that occurred within 150 feet of US 15 are included in the study.



150

General Questions

- Why is the location being studied (fatality, crash frequency, pedestrians, etc.)?
- Where is the location (county, city, ETJ, etc.)?
- What is the location (intersection, strip, bridge, interchange, etc.)?
- What is the Y-line?
- When is the location to be studied (time frame beginning and ending dates)?

Location Information

- Study the location (local knowledge, maps, etc.)
- Identify all affected routes (high order and low order)
- Review the mileposting for the identified routes
- Identify traffic volumes (AADT) on the affected routes

General Steps

- Determine why the study is being completed and all applicable parameters.
- Determine all the location information.
- Generate the initial study.

 Generate a fiche report and review the crashes.
 Verify crash information on the initial study and adjust as necessary.

• Generate the final study.

Crash Studies - Main Screens

• Access the crash study screens by selecting the following:



\implies Intersection Analysis Report

- OR -



⇒ Strip Analysis Report

Study Information Tab (Main Screen)



Study Information Tab (Cont.)

- AADT Route 8-digit code identifying the route AADT was taken
- K/A Coeff Default value of 76.8 (Should not be altered)
- B/C Coeff Default value of 8.4. (Should not be altered)
- Log No. Number assigned by the User to identify the study
- PH No. Number used by the Highway Safety Improvement Program to track potentially hazardous (PH) locations
- **TIP No.** Number assigned by the Division of Highways to track Transportation Improvement Program (TIP) projects
- Received Date date the study was requested
- Courier Service NCDOT courier address for the requestor
- Requested By Person/Organization requesting the study
- Phone Requestor's Phone number of the requestor
- Phone Ext. Phone extension of the requestor
- Fax Requestor's fax number

General Study Functions

- To create a new study:
 - Click the "New" icon



Note: If modifying an existing study, first save the existing study, or else the information on the existing study may be lost.

- To save a study:
 - Click the "Save" icon



- Study is saved and displayed in "view" mode

 If the study being saved was created by another user, it must be saved under another name

Note: If additional modifications are to be made to the saved report, click the **"Modify"** icon.

General Study Functions (Cont.)

To search for a study:

- Click the "Search" icon



- The following fields are valid search criteria: **Study Name** TIP No. Location Text County Log No User ID
- Enter the information you want to search by (use wildcards if needed)

–Click the "GO" icon GO



Note: If modifications are to be made to searched studies, click the "Modify" icon

General Study Functions (Cont.)

To modify an existing study:

- Click the "Modify" icon

(This is necessary when a study is displayed in view mode and modifications need to be made or reports are to be run)

To delete an existing study:

- Click the "Delete" icon
- Click "**Yes**" in the confirmation dialog box

Canceling a study operation:

- Click the "Cancel" icon

(this returns all values in the "Study Information" tab screen to the values from the last save)





Codes Index Report

- The "Fiche, Intersection, and Strip Reports Code Index" serves as a legend for codes that appear on the fiche, intersection, and strip reports.
- Access the "Fiche, Intersection, and Strip Reports Code Index" report by selecting the following:



Fiche, Intersection, and Strip Reports Code Index

Codes Index Report Example

North Carolina Department of Transportation Traffic Engineering Accident Analysis System Fiche, Intersection, and Strip Reports Code Index

T - Type of Accident Codes

- 0 = UNKNOWN
- 1 = RAN OFF ROAD RIGHT
- 2 = RAN OFF ROAD LEFT
- 3 = RAN OFF ROAD STRAIGHT
- 4 = JACKKNIFE
- 5 = OVERTURN/ROLLOVER
- 13 = OTHER NON-COLLISION
- 14 = PEDESTRIAN
- 15 = PEDALCYCLIST
- 16 = RR TRAIN, ENGINE
- 17 = ANIMAL
- 18 = MOVABLE OBJECT
- 19 = FIXED OBJECT
- 20 = PARKED MOTOR VEHICLE
- 21 = REAR END, SLOW OR STOP
- 22 = REAR END, TURN
- 23 = LEFT TURN, SAME ROADWAY
- 24 = LEFT TURN, DIFFERENT ROADWAYS
- 25 = RIGHT TURN, SAME ROADWAY
- 26 = RIGHT TURN, DIFFERENT ROADWAYS
- 27 = HEAD ON
- 28 = SIDESWIPE, SAME DIRECTION
- 29 = SIDESWIPE, OPPOSITE DIRECTION
- 30 = ANGLE
- 31 = BACKING UP
- 32 = OTHER COLLISION WITH VEHICLE

F - Road Feature Codes

- 0 = NO SPECIAL FEATURE
- 1 = BRIDGE
- 2 = BRIDGE APPROACH
- 3 = UNDERPASS
- 4 = DRIVEWAY, PUBLIC
- 5 = DRIVEWAY, PRIVATE
- 6 = ALLEY INTERSECTION
- 7 = FOUR-WAY INTERSECTION
- 8 = T-INTERSECTION
- 9 = Y-INTERSECTION
- 10 = TRAFFIC CIRCLE/ROUNDABOUT
- 11 = FIVE-POINT, OR MORE
- 12 = RELATED TO INTERSECTION
- 13 = NON-INTERSECTION MEDIAN CROSSING
- 14 = END OR BEGINNING DIVIDED HIGHWAY
- 15 = OFF RAMP ENTRY
- 16 = OFF RAMP PROPER
- 17 = OFF RAMP TERMINAL ON CROSSROAD
- 18 = MERGE LANE BETWEEN ON AND OFF RAMP
- 19 = ON RAMP ENTRY
- 20 = ON RAMP PROPER
- 21 = ON RAMP TERMINAL ON CROSSROAD
- 22 = RAILROAD CROSSING
- 23 = TUNNEL
- 24 = SHARED-USE PATHS OR TRAILS
- 25 = OTHER

DMV Crash Reporting Site

Go to the DMV Crash Reporting Site to review crash reports on-line and log on as an external user.

TEAAS Resources and Information Mileposting, TEAAS Links

★ ► Resources ► Traffic Safety ► TEAAS Resources and Information

TEAAS Mileposting

Mileposting is the process of determining the location of features on a road, in miles, from the beginning of the road, and is a fundamental requirement of the Traffic Engineering and Acoident Analysis System (TEAAS) necessary for crash studies and analyses, crash rates, and ordinance overlap checks. Mileposts are based on information in NCDOT's Linear Referencing System (LRS) maintained by the Geographic Information Systems (GIS) Unit, and are used to determine where crashes occurred, or where ordinances are located, in relation to roadway features. Features requiring mileposts are intersections and interchanges, at-grade railroad crossings, mile markers, structures (that carry the road), and political boundaries (municipal, county, and state lines).

Mileposting Links

Exclusion List (LRS sycnchronization)	POF
Guidelines.pdf	POF
High Order Routes Sheet.zip	22
List of County Information.zip	22
Old Secondary Road Names (SECI).pdf	PDF
Oracle Script (Non-Inventoried Route Names).txt	
Oracle Script (Unmileposted Crashes and Ordinances).txt	
Policies and Procedures.pdf	POF
Route Change Mileposting Guidelines.pdf	POF

	Employee Directory
_	Staff contacts for
	Transportation Safety and
	Mobility.

Local City Crash Reports

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Greensboro Police Reports

Raleigh Crash Reports

Wilminton Police Reports

Winston-Salem Crash Reports

Links and Information

Bridge Document Management System (BridgeDocs)

County GIS Maps

Crash Rates

DMV CrashWeb Access North Carolina Identity Management Service (NCID)



North Carolina Identity Management (NCID)

NCID is the standard identity management and access service provided to state, local, business, and individual users. NCID provides a high degree of security and access control to real-time resources.

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To register for a new NOCI account click here: Register

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https://dmvcrashweb.dot.state.nc.us/crashweb/html/crstitle.html

Welcome to North Carolina DMV Crash Reporting Site

Note: Please read the following important information:

For optioner preformance on this sate, use Internet Explore 505 or Distance Elliptic 47+ between and a correspondence of 302/by 302

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DMV Crash Reporting Site (Cont.)

Search for a single crash or create a new batch (list of crashes).

Home

Search for Crash Reports o Search by Crash

- ID
- Search by DL Number

Batch Request

- Create New
- Batch

 View Existing Batches

Electronic Distribution

Reports

Help

- Search for Crash Reports
- o Batch Request

External User Search for Crash Reports

Contents

Introduction

How to Search by Crash ID

How to Search by DL Number

Introduction

The External User Crash Report Requests application enables you to view, search and print crash reports (initial or supplemental filings) for a specific crash or several crashes at one time (batch). You can retrieve crash documents from January 1, 1999 or later. North Carolina DMV crash ID numbers are necessary in order to request specific crashes. If the crash occurred in 1999, the crash ID is 8 digits long. If the crash occurred in year 2000 or later, the crash ID is 9 digits long.

To view a crash document, your PC must already have an image viewing application that can read TIFF (Tagged Image File Format) images. Check with your system administrator before you use this application to see if you have the appropriate software.

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How to Search by Crash ID

DMV-349 Crash Report

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DMV-349 Crash Report (Cont.)



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Crash Study Dates and Resources

Connect business par	NCDOI tner resou	RCES								Home	Help	Site Map
Doing Business	Bidding & I	Letting Pr	ojects	<u>Resources</u>	Local Goverr	nments			Search			٩
Environmental	Geotechnical	Hydraulics	Mate	rials & Tests	Specifications	State Ro	bads	Structures	Traffic Safety			

Traffic Engineering Accident Analysis System (TEAAS)



https://connect.ncdot.gov/resources/safety/Pages/TEAAS-Crash-Data-System.aspx

Crash Study Resources



beginning of the road, and is a fundamental requirement of the Traffic Engineering and Accident Analysis System (TEAAS) necessary for crash studies and analyses, crash rates, and ordinance overlap checks. Mileposts are based on information in NCDOT's Linear Referencing System (LRS) maintained by the Geographic Information Systems (GIS) Unit, and are used to determine where crashes occurred, or where ordinances are located, in relation to roadway features. Features requiring mileposts are intersections and interchanges, at-grade railroad crossings, mile markers, structures (that carry the road), and political boundaries (municipal, county, and state lines).

Mileposting Links

Exclusion List (LRS sycnchronization)	PDF
Guidelines.pdf	POF
High Order Routes Sheet.zip	22

Mobility.

Local City Crash Reports

Charlotte Crash Reports

Greensboro Police Reports

Raleigh Crash Reports

Wilminton Police Reports

Winston-Salem Crash Reports

Links and Information

Bridge Document Management System (BridgeDocs) County GIS Maps Crash Rates DMV CrashWeb DMV CrashWeb Access North Carolina Identity Management Service (NCID) DMV CrashWeb NCID New Account Instructions DMV User Management Application (UMM) Historical Roadway Characteristics Data (ME14) Information, Mapping, & Graphics (IMG) List of County Information MANTIS Bug Tracking System NCDOT GIS Data Lavers NCDOT GIS Unit Project Breakdown Maps Project Search Project Server (bey let date) SR Number Lookup TEAAS Website

Links and Information

TRACS Website

Volume (AADT) Maps

https://connect.ncdot.gov/resources/safety/Pages/TEAAS%20Information.aspx